

Fig 1 lists the Typical Minimum Acceptable Bit Error Rates.

**Bit Error Rate and Error Correction Criteria:**

Typical Minimum Acceptable Bit Error Rate

Video:  $10^{-5}$  BER

Audio:  $10^{-3}$  BER

Data:  $10^{-10}$  BER

**Fig 1**

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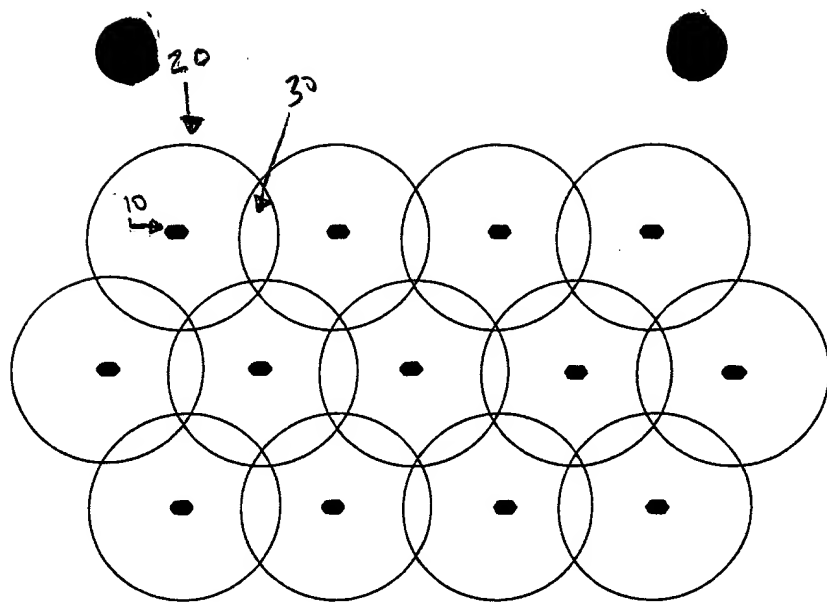


Fig 2 - Base Station Architecture  
(showing overlapping coverage)

090410 034204  
090410 034204

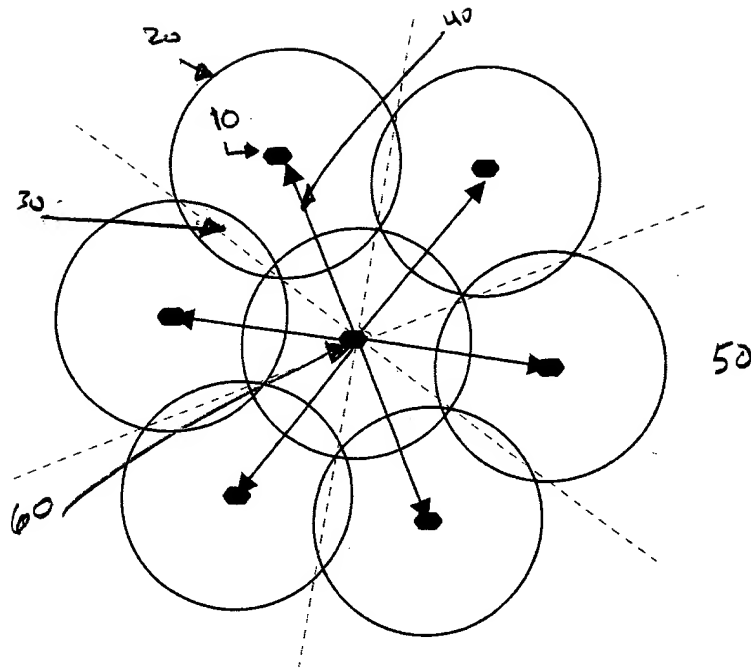


Fig 3 - Single Base Station (showing connectivity to six other Base Stations for handoff and channel co-ordination)

FIG. 3

As a Mobile Unit passes from one Sector to another, the Base Station will initiate a "soft handoff" for the channel change

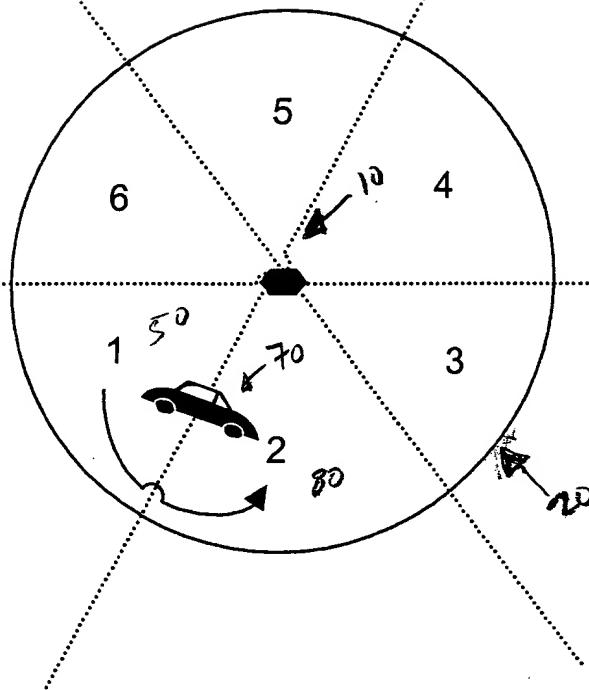


Fig 4 - Sectorization at UWB Base Station

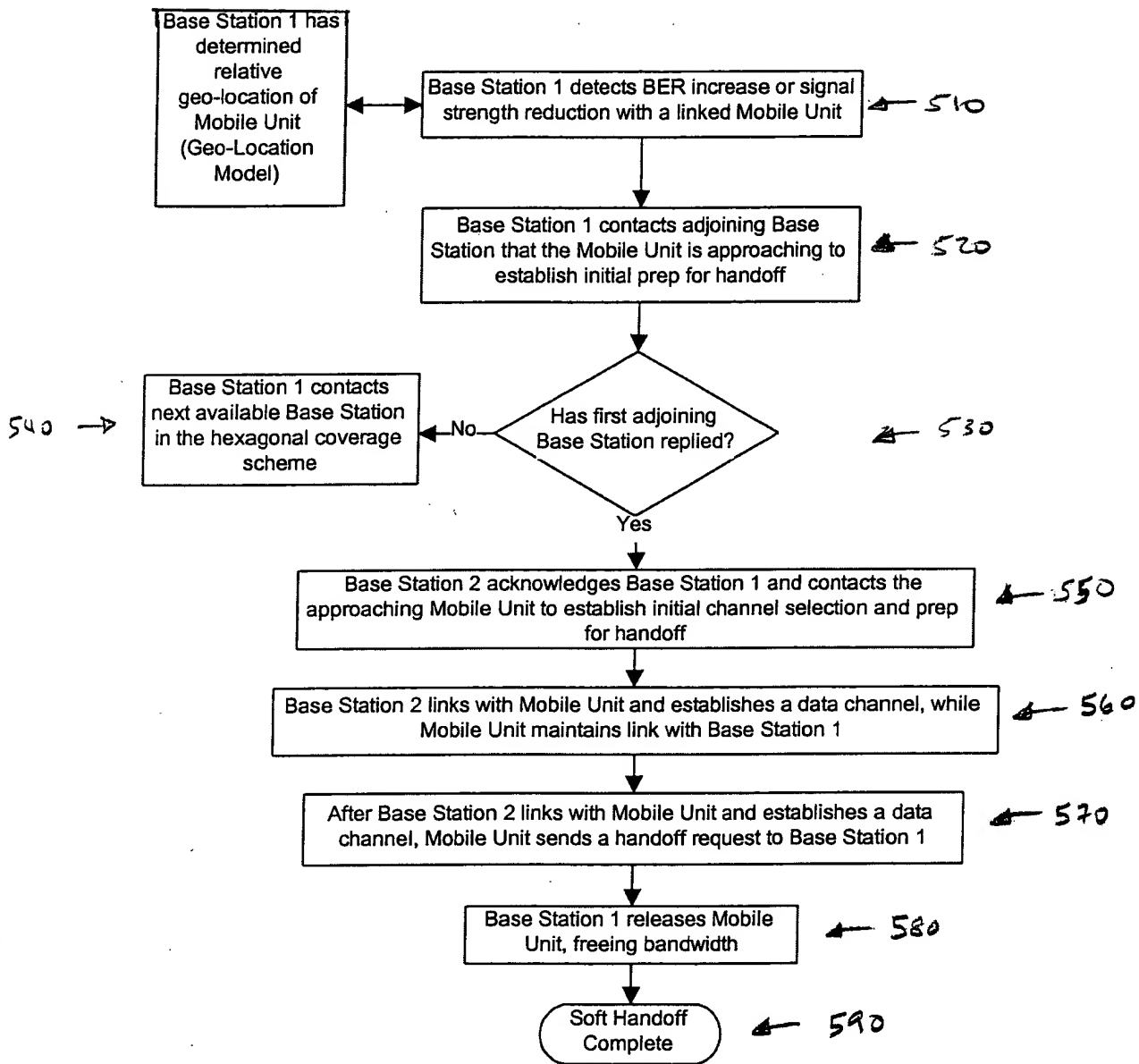


Fig 5 - Soft Handoff Scenario #1: Base Station to New Base Station to Mobile Unit

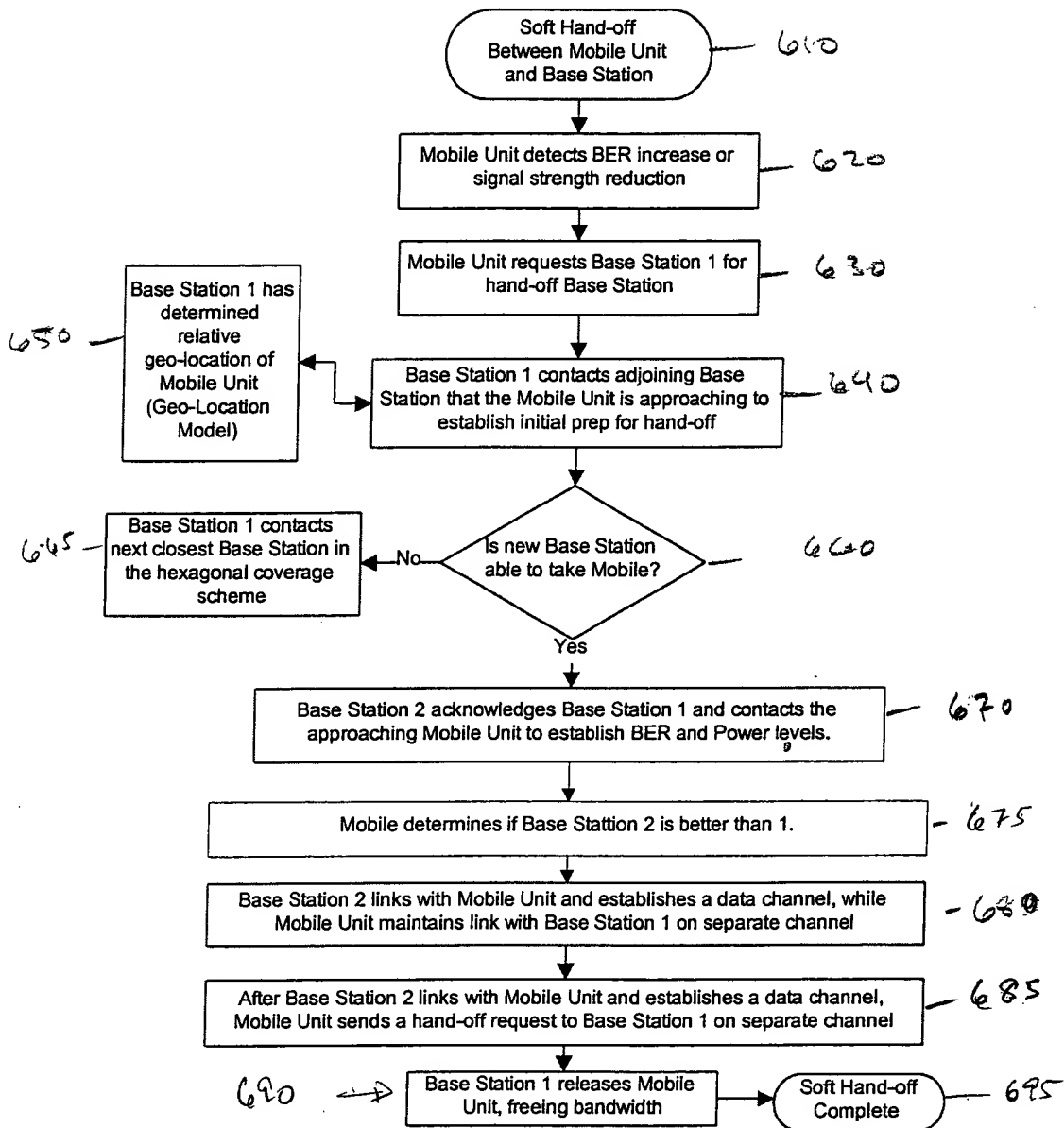


Fig 6 - Soft Hand-off Scenario #2: Mobile Unit to Base Station to New Base Station

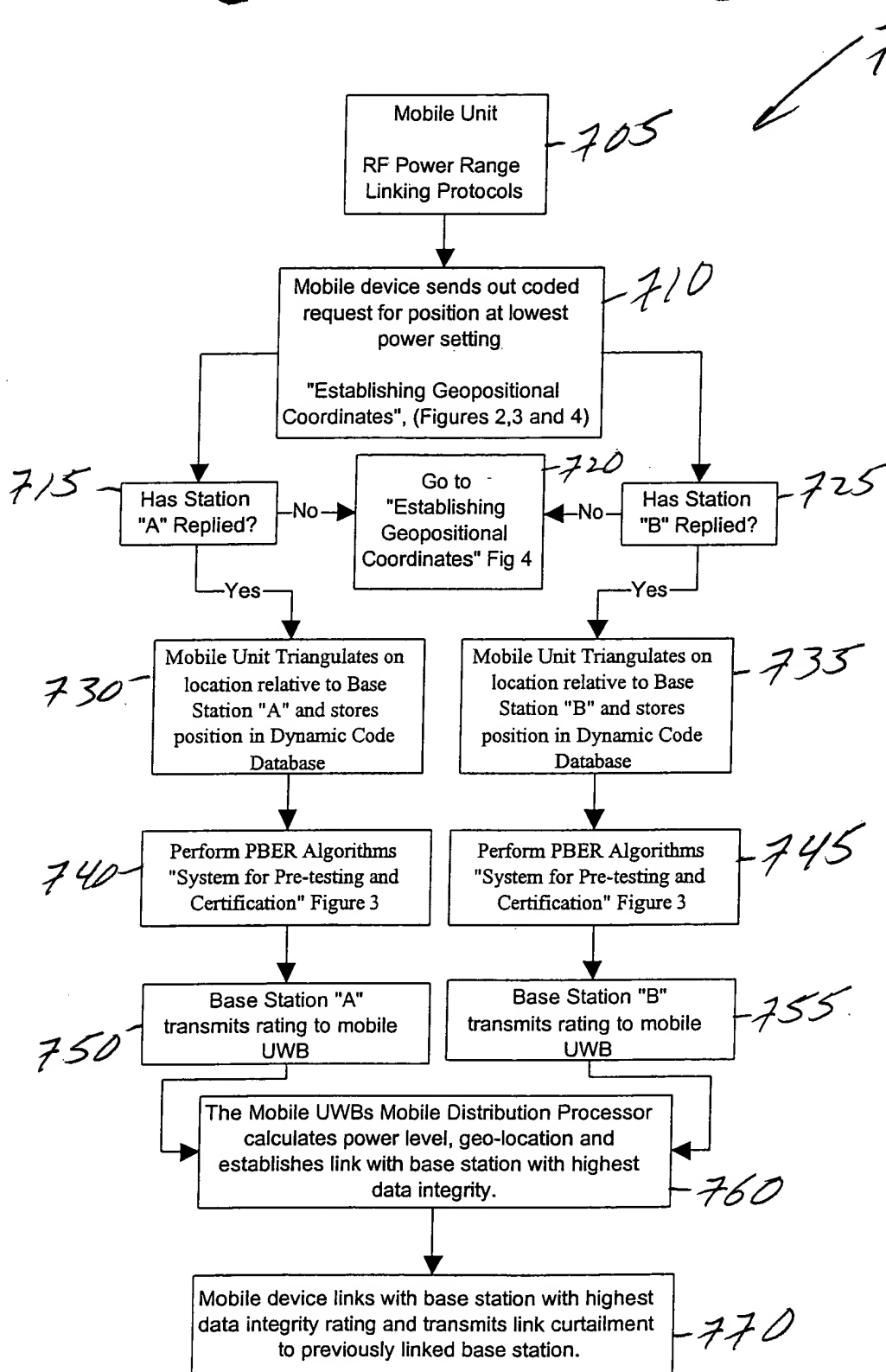
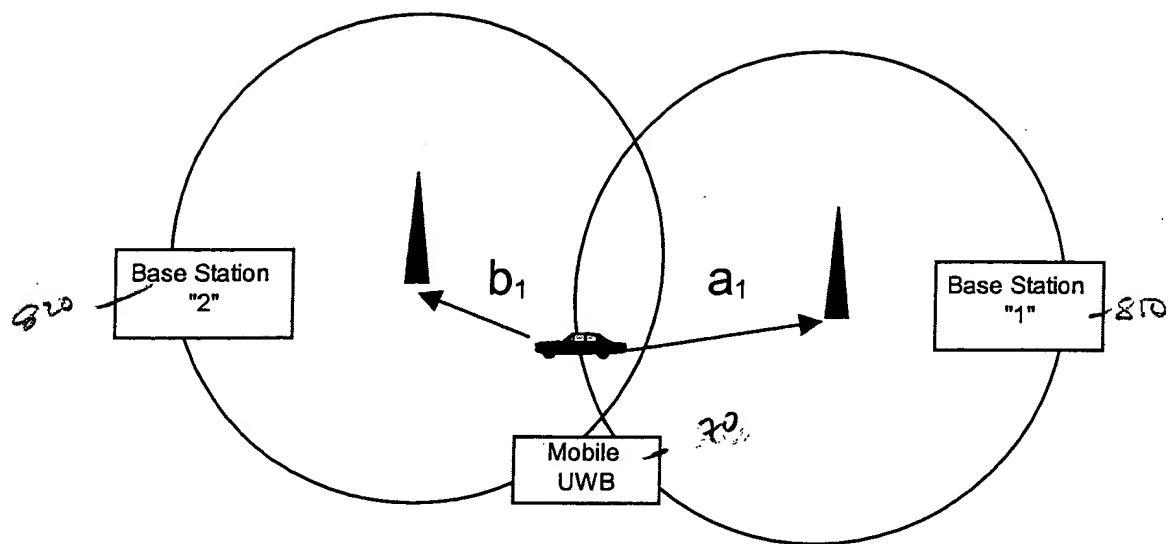


Fig 7 - Soft Hand-off Scenario #3: Performs Dynamic Power Range Linking



Mobile UWB is leaving range of Base Station "1" and is now within the range of Base Station "2"  
 (Transmission distances are indicated by  $a_1$  and  $b_1$ )

Fig 8 - Power-Range Linking Model for soft hand-off  
 (Mobile leaving coverage of Base Station "2")

2025-10-10 10:34:30



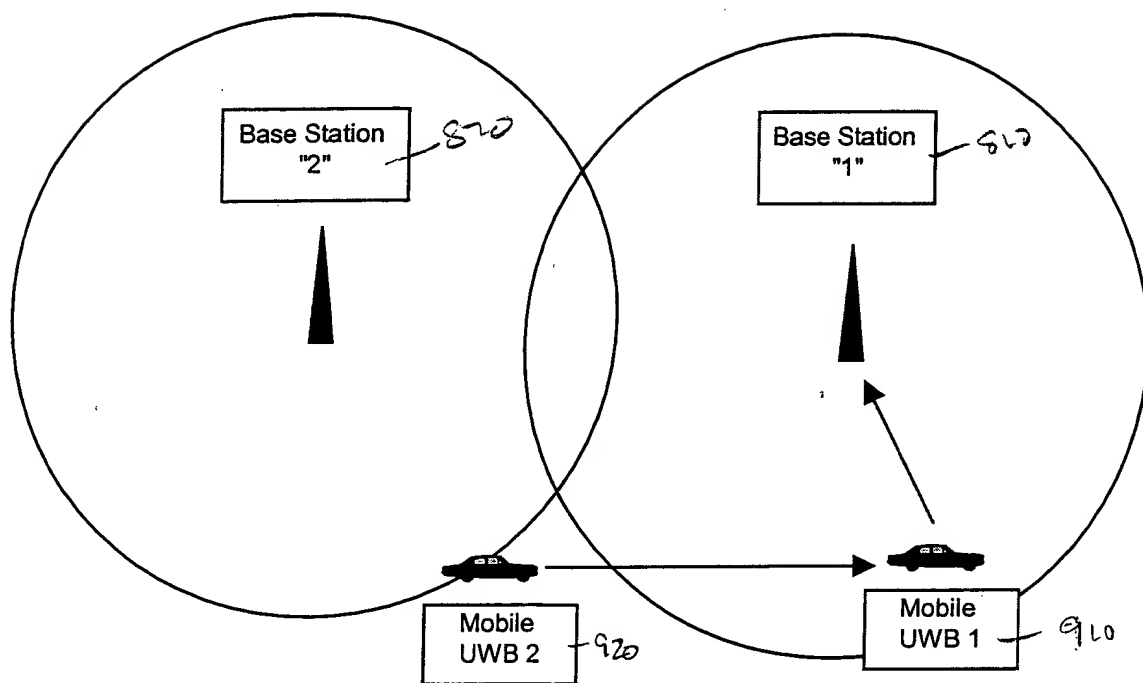


Fig 9 - Soft Hand-off Scenario #4 (Mobile Unit to Mobile Unit to Base Station, also providing emergency geo-locationing)

2025-03-04 10:00:00

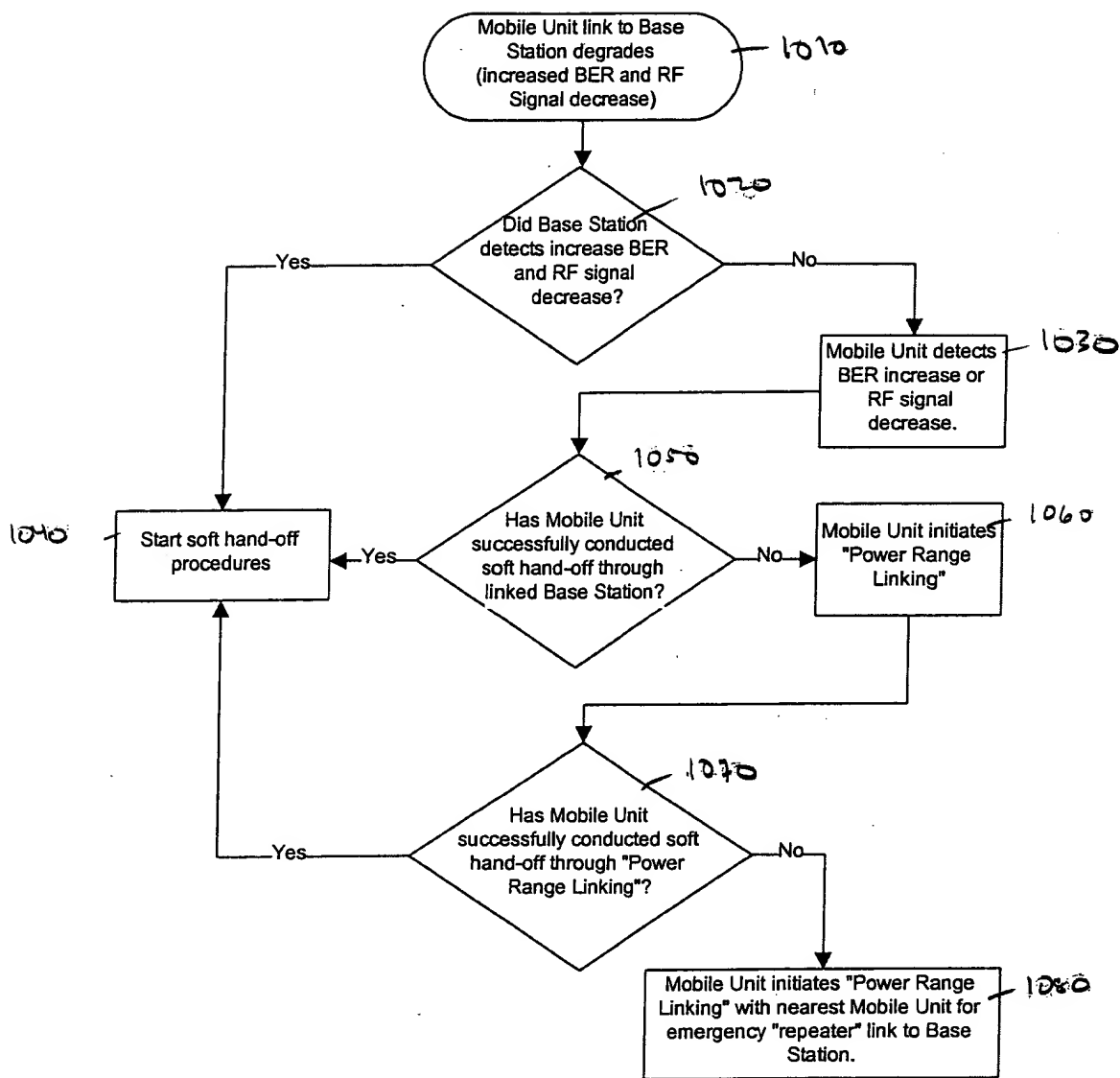


Fig 10 - Soft Hand-off procedures for Scenarios 1 through 4

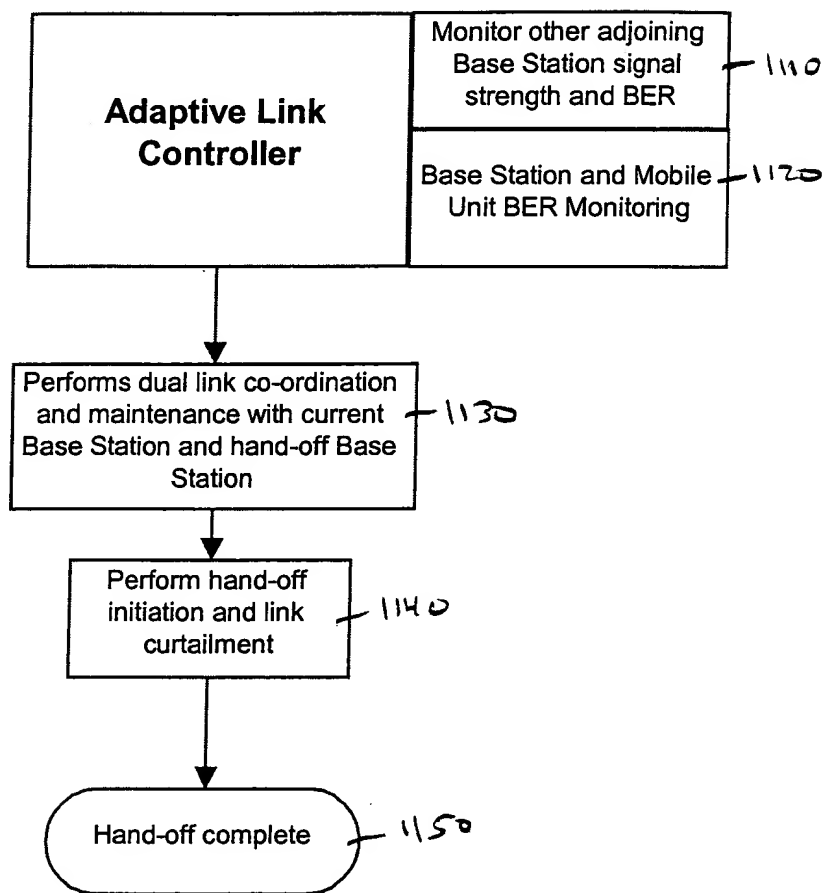


Fig 11 - Adaptive Link Controller